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DOCKET FILE COPY ORIGINAL

May 21, 1996



William F. Caton Acting Secretary Federal Communications Commission Mail Stop 1170 1919 M Street, N.W., Room 222 Washington, D.C. 20554

Dear Mr. Caton:

Re: CC Docket No. 96-45, Universal Service

Yesterday, Ronnie S. Thierman, Executive Director, State and Federal Regulatory Proceedings, Colin Petheram, Regulatory Manager, Universal Service, Peter W. Geiler, Financial Manager, Product Economics and Public Policy Analysis, all of Pacific Bell, James Stegeman, Senior Consultant, INDETEC International, and I met with John Morabito, Deputy Chief, Jon Reel, Pam Szymczak, and Gary Siegel, of the Accounting and Audits Division, Common Carrier Bureau, to discuss the issues summarized in the attached materials. Please associate these attachments with the above-referenced docket.

We are submitting two copies of this notice in accordance with Section 1.1206(a)(1) of the Commission's rules. Please stamp and return the provided copy to confirm your receipt. Please contact me should you have any questions

Sincerely,

cc:

John Morabito Pam Szymczak Jon Reel Gary Siegel

Part ACODE

THE COST PROXY MODEL®

What is it

The CPM is a database driven predictor of a least cost, forward looking local telecommunications network. It is based upon data collected from a small geographic unit which can be roled up into an geographic area, including CBG, WC, CATV, or according to other factors such as ethnicity, income, age, etc..

Distinguishing characteristic

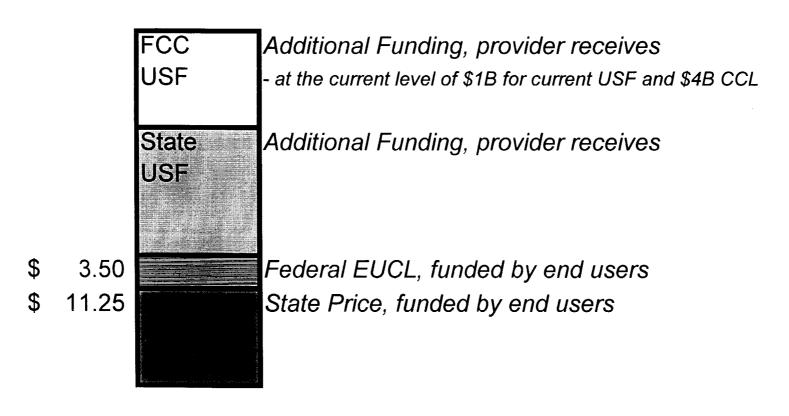
A SAS™ based, menu driven software system making it easy to use and run what if scenarios, contrasted to Excel™ spreadsheets based models.

Other advantages

Finer input geography - grid
Delinks cash operating expenses from investments
Includes all network elements
All inputs are changeable
Accurate assignment of of CBGs
Recognizes individual provider uniqueness
Flexible
Works with both proprietary and commercial inputs

California Example

FCC Subsidy Issue in Context of Total Cost of Universal Service



CPM Development Criteria

- 1. Accommodate <u>any</u> geography
- Operate with or without proprietary data
- 3. Reflect realistic cost drivers

1. Accommodate Any Geography

- Individual premises Wire centers
- Grid cells (any size) CATV areas
- Census block groups Entire state
- Cities and towns
 Arbitrary polygons

2. Operate With or Without Proprietary Data

- Customer addresses
- Grid cells/other polygons

Actual network

Simulated network

Company costs

• Average costs

· Actual equipment

· Assumed equipment

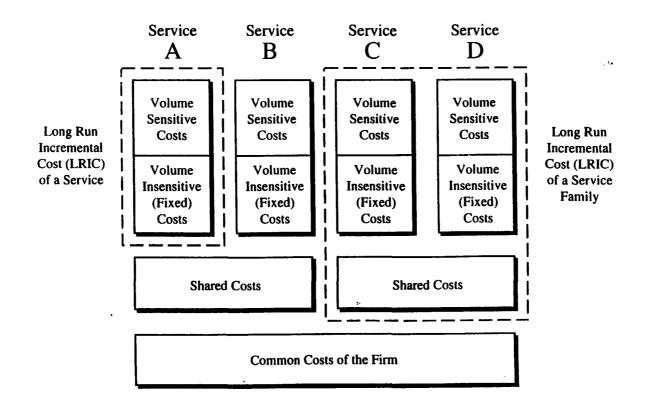
 Actual network topology

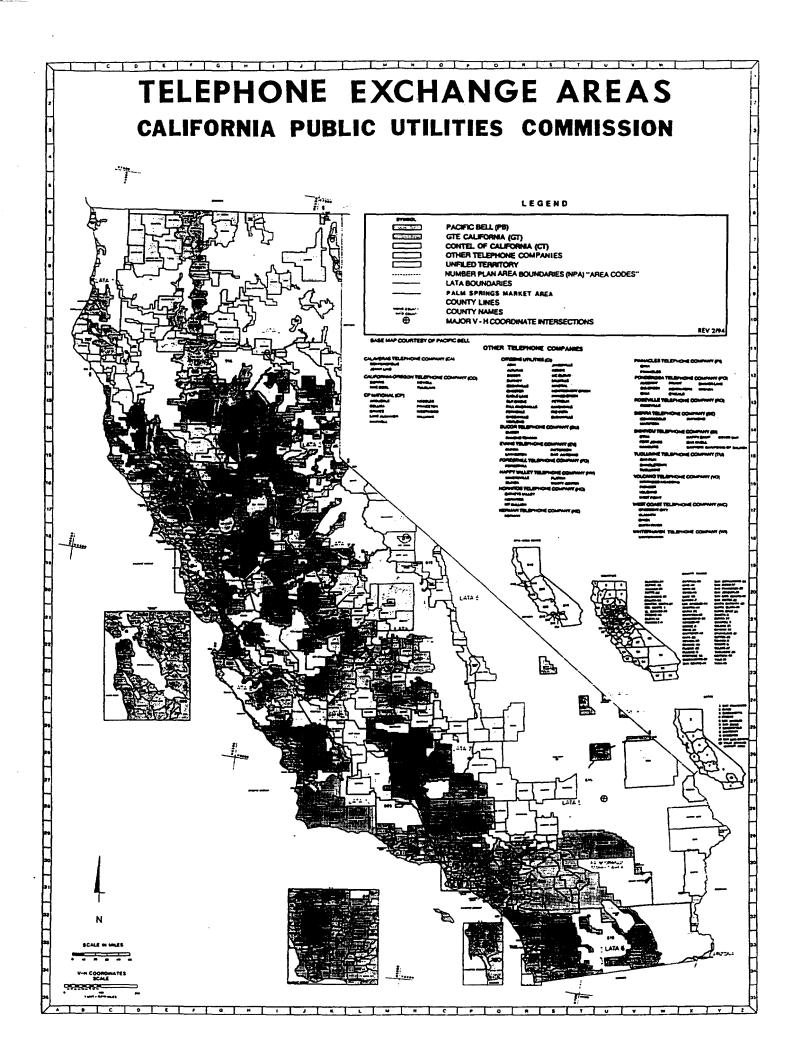
 Modeled network topology

3. Reflect Realistic Cost Drivers

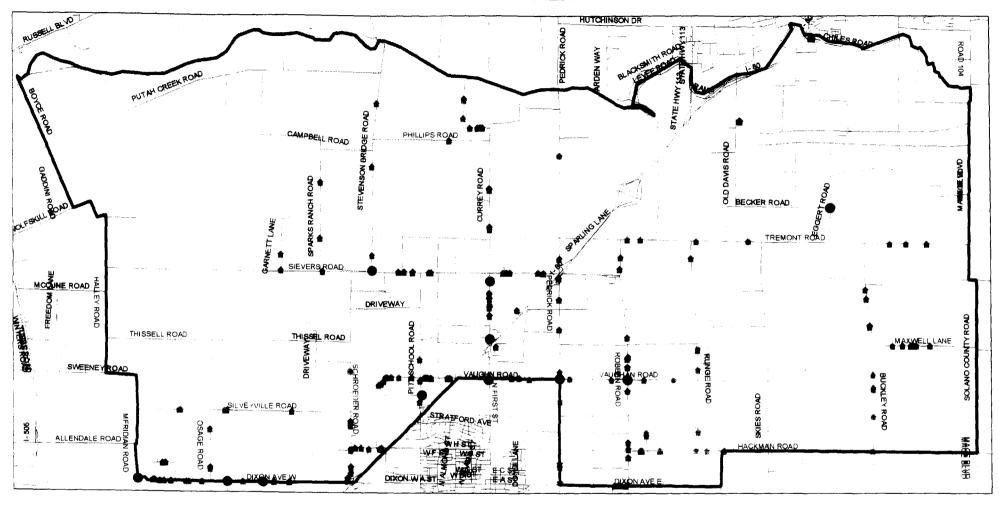
- Recognize terrain differences
- Assign Customers to serving wire center
- Accommodate specified technology
- · Reflect actual distances and densities

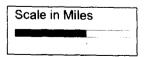
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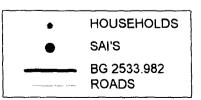


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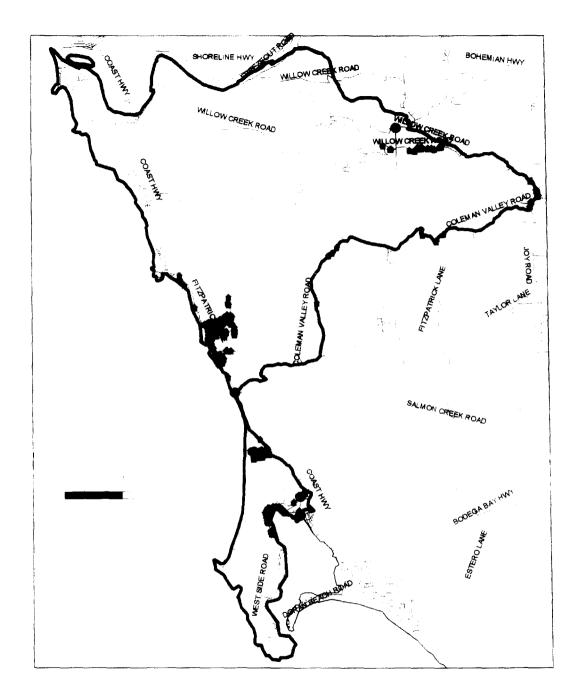


PROPRIETARY INFORMATION: NOT FOR USE OR DISCLOSURE OUTSIDE PACIFIC BELL EXCEPT UNDER WRITTEN AGREEMENT

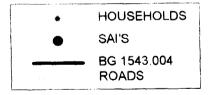


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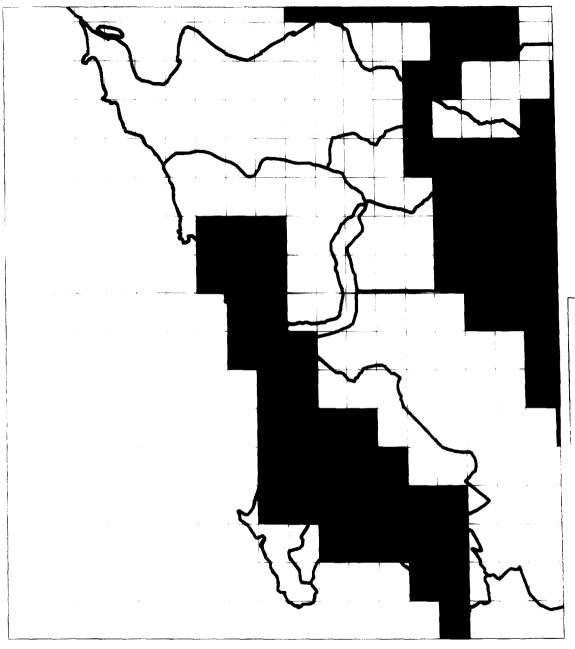
PREPARED BY PACIFIC BELL GEOGRAPHIC INTELLIGENCE SERVICES BUS MKT GRP



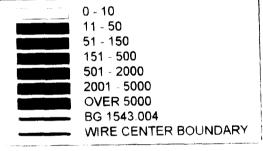
BLOCK GROUP 60971543.004 BODEGA BAY AREA



BDBA7 012496D



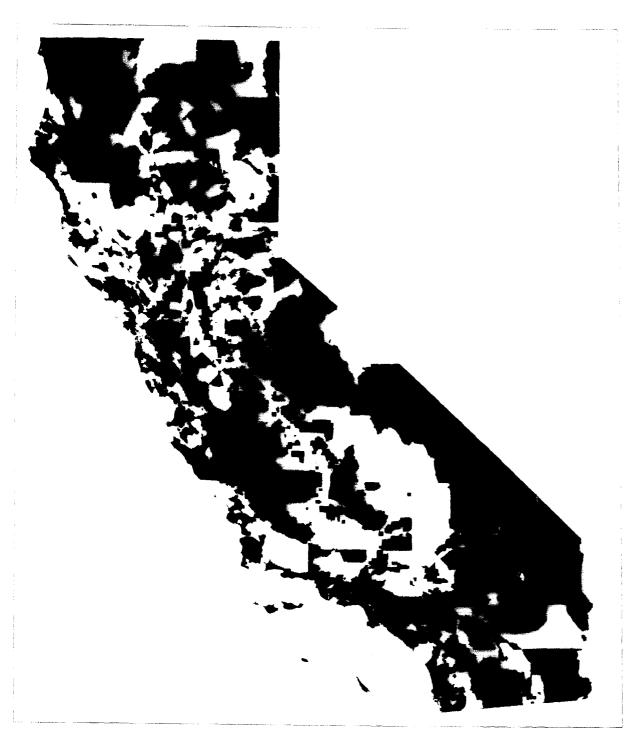
BODEGA BAY AREA RES/BUS DENSITY NINE GRID (AVERAGE)



Scale in Miles

BDBA3 012496D

PREPARED BY PACIFIC BELL GEOGRAPHIC INTELLIGENCE SERVICES BUS MKT GRP



UNIVERSAL SUBSIDY AMOUNTS BY CENSUS BLOCK GROUP COST PROXY MODEL CALIFORNIA



-\$80.00 - \$10.00

\$10.01 - \$25.00

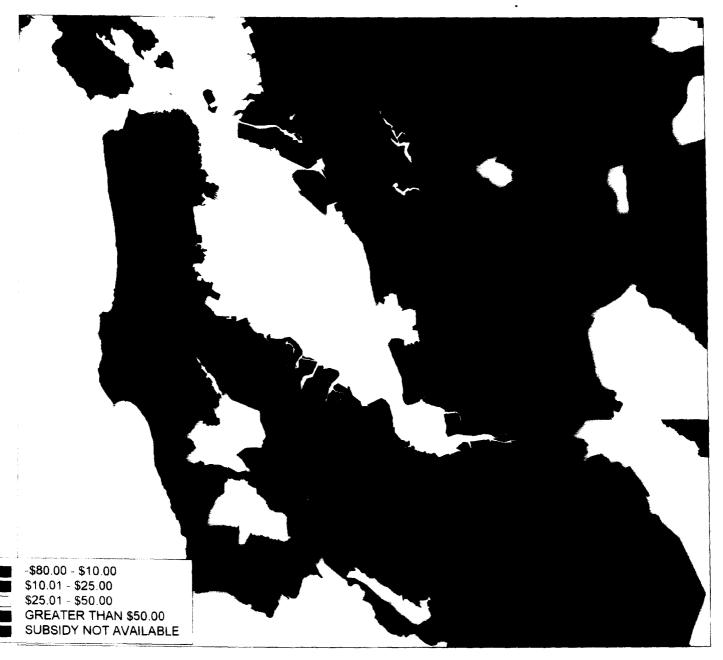
\$25.01 - \$50.00

GREATER THAN \$50.00 SUBSIDY NOT AVAILABLE

PROPRIETARY INFORMATION NOT FOR USE OR DISCLOSURE OUTSIDE PACIFIC BELL EXCEPT UNDER WRITTEN AGREEMENT

PREPARED BY PACIFIC BELL GEOGRAPHIC INTELLIGENCE SERVICES

UNIVERSAL SUBSIDY AMOUNTS BY CENSUS BLOCK GROUP COST PROXY MODEL - SAN FRANCISCO BAY AREA



UNIVERSAL SUBSIDY AMOUNTS BY CENSUS BLOCK GROUP **COST PROXY MODEL - LOS ANGELES AREA**

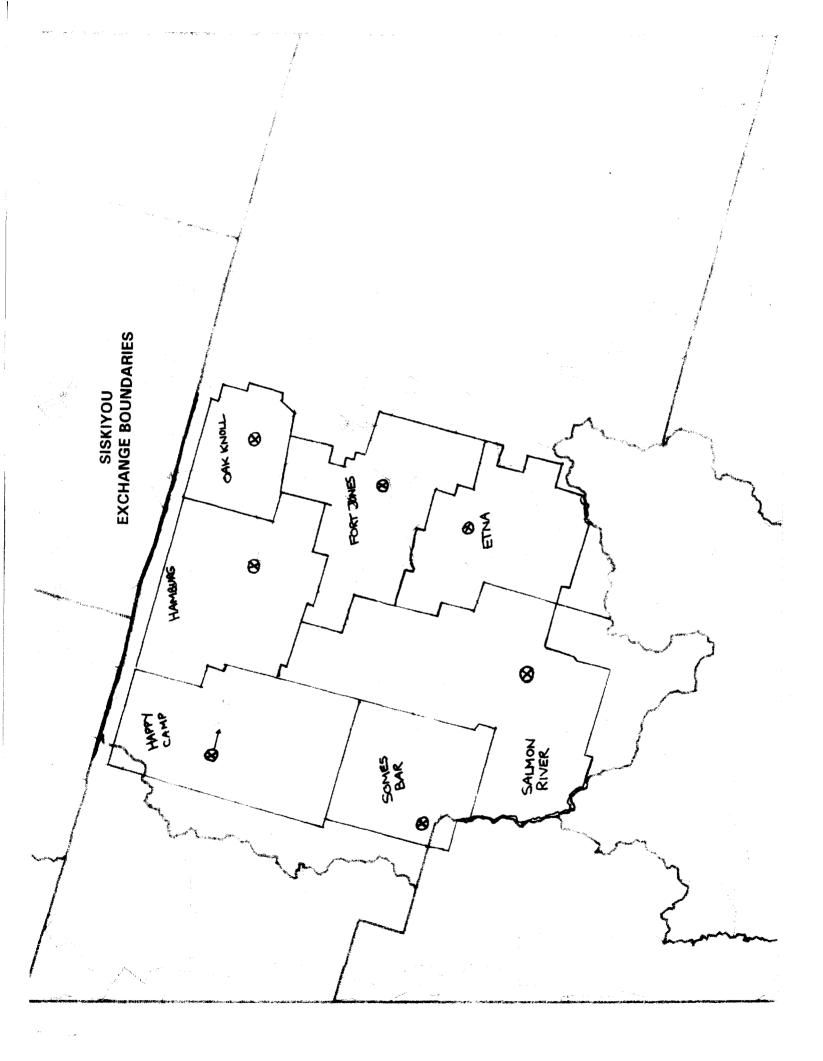


CALIFORNIA R. 95-01-020 I. 95-01-021 ALJ Wong

Exhibit 32

Introduced 5/96

SISKIYOU TELEPHONE COMPANY CBG AND EXCHANGE AREAS



CALIFORNIA R 95-01-020 T 95-01-021 ALJ WONG Exhibit 36 MAX 1996

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Cost Proxy Model Presentation of Methodology

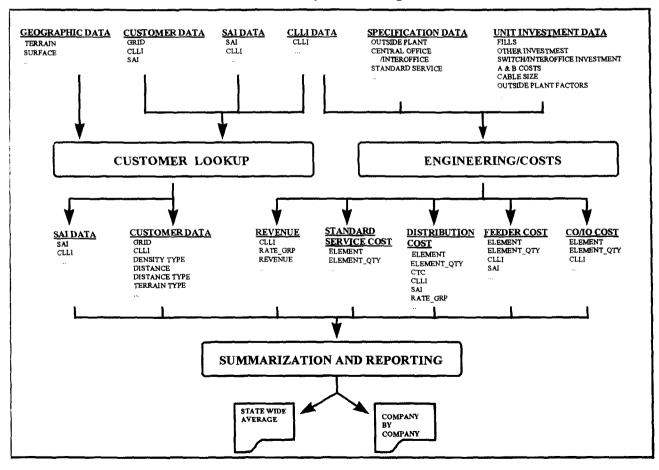
given by

INDETEC International and Pacific Bell

May 20-21, 1996

Cost Proxy Model System Design

Basic System Design



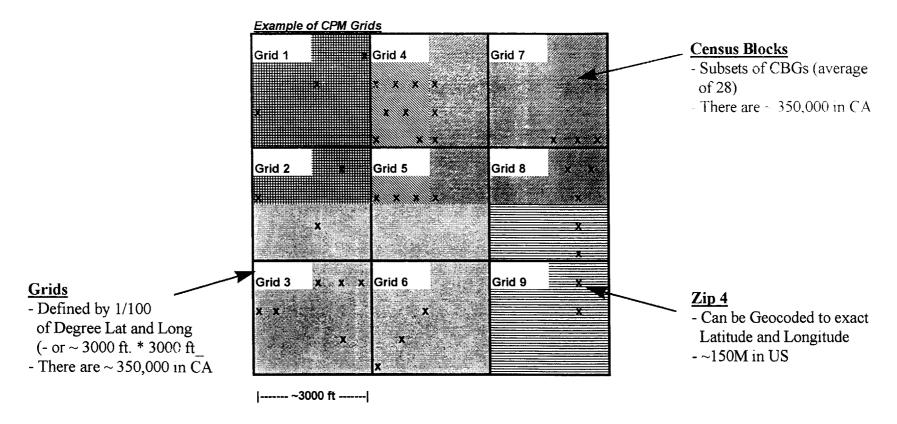
Cost Proxy Model The "Grid" Dimensions

- ⇒ Currently, the Following Dimensions are Attached at the "Grid" Level
 - □ CLLI
 - ⇒ CBG
 - ⇒ State
 - ⇔ Company
 - ⇒ Political Boundaries
 - □ Density Type
 - □ Terrain Type
- ⇒ These Dimensions are Available but are Not in Use

 - □ Income
 - ⇒ Sex, Age
 - ⇒ Home Ownership

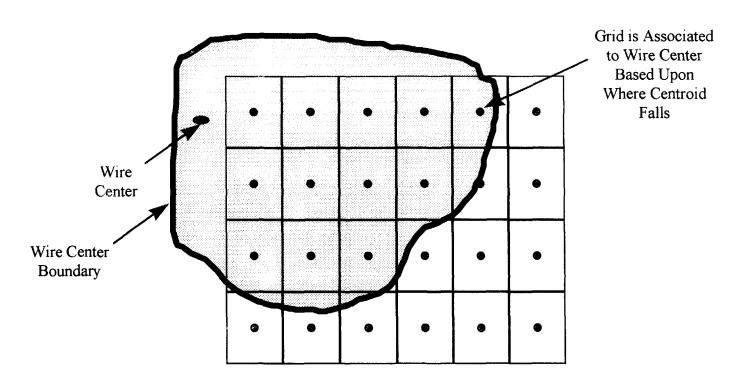
Cost Proxy Model Customer Engine: The "Grid", Part 1

- Current California Model uses Census Block Household data apportioned to "Grids" based on Land Mass
- Currently developing improved file using Zip4 data Points as apportioning unit



Cost Proxy Model Customer Engine: The "Grid", Part 2

- ⇒ Commercial Data Source Provides Wire Center Boundaries Along With the Lata, NXX, Switch Type, Rate Center, and Company
- ⇒ Using the Boundary, We can Then Assign the "Grids" to a Wire Center



Cost Proxy Model Engineering Assumptions

- ⇒ Distribution Density Based Upon "Grid" and 8 Surrounding "Grids"
- ⇒ Feeder Density Based on Density of Wire Center
- ⇒ Pair Gain Systems Used When <u>Feeder</u> Distance > 9000 Ft.
- ⇒ Fiber is Used When Feeder Distance > 9000 Ft.
- ⇒ Current Cost of Equipment
- ⇒ Digital Switches
 - ⇒ DMS100 and Remotes
 - ⇒ 5E and Remotes